

Figure 1

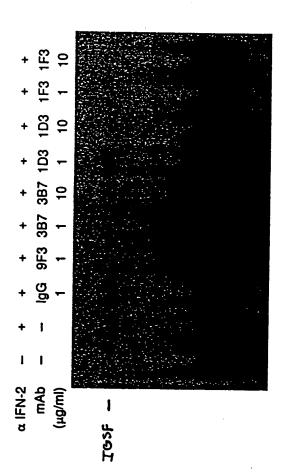
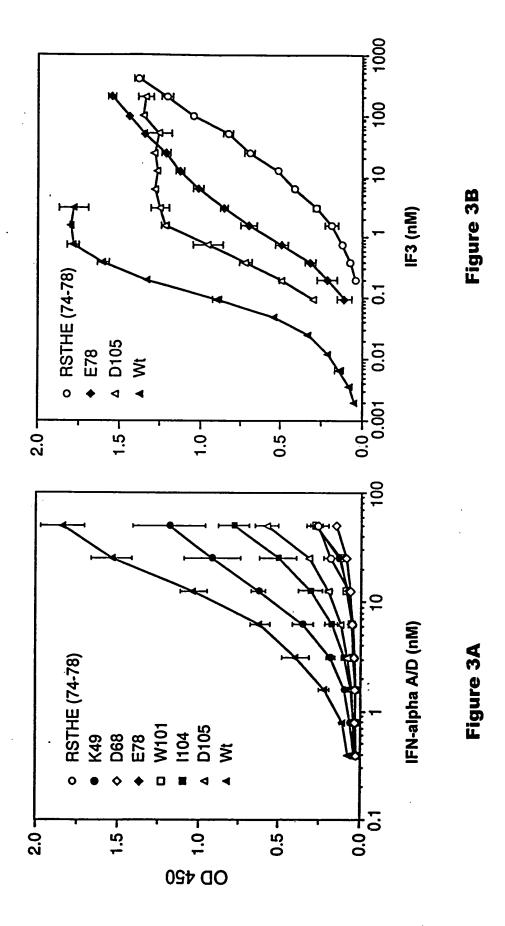


Figure 2



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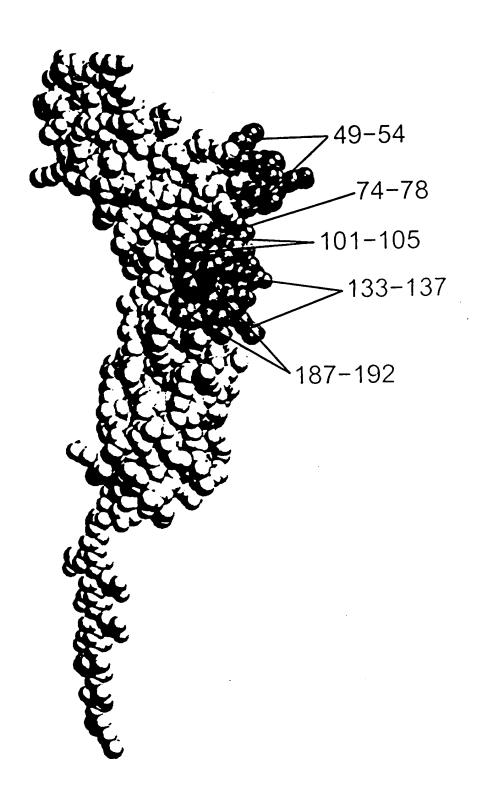


Figure 4

GAATICCIAA AAATAGCAAA GAIGCITITIG AGCCAGAATG CCTICAICGT CAGAICACIT AATITIGGIIC ICAIGGIGIA IAICAGCCIC GIGITITGGIA CFTAAGGAFT TITATCGIFF CTACGAAAAC TCGGTCTTAC GGAAGTAGCA GTCTAGTGAA TTAAACCAAG AGTACCACAT ATAGTCGGAG CACAAACCAT

human alpha beta receptor

- S rlyras pserproasp TyrThraspd luserCysTh rPheLysIle SerLeuarga snPheargse rIleLeuser TrpGluLeuL ysasnHisser 101 TITCATATGA ITCGCCTGAT TACACAGATG AATCITGCAC ITTCAAGATA TCATTGCGAA AITTCCGGTC CATCITATCA TGGGAATTAA AAAACCACTC TTTTGGTGAG AAGCGGACTA ATGTGTCTAC TTAGAACGTG AAAGTTCTAT AGTAACGCTT TAAAGGCCAG GTAGAATAGT ACCTTAATT AAAGTATACT
- Ilevalpro ThrHisTyrT hrLeuLeuTy rThrIleMet SerLysProG luAspLeuLy sValValLys AsnCysAlaA snThrThrAr gSerPheCys CATTGCTGTA TACAATCATG AGTAAACCAG AAGATTTGAA GGTGGTTAAG AACTGTGCAA ATACCACAAG ATCATTTTGT TOAGTGATAT GIMACGACAT AIGITAGIAC ICATITIGGIC ITCIAAACIT CCACCAAITC ITGACACGIT TAIGGIGITIC CATTGTACCA ACTCACTATA GTAACATGGT 201 35

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- GTGTTAAAGA GACCTCACAG ATGAGTGGAG AAGCACACAC GAGGCCTATG TCACCGTCCT AGAAGGATTC AGCGGGAACA CAACGTTGTT CAGTTGCTCA CACAATTTCT CTGGAGTGTC TACTCACCTC TTCGTGTGTG CTCCGGATAC AGTGGCAGGA TCTTCCTAAG TCGCCCTTGT GTTGCAACAA GTCAACGAGT 301
- Aspleuthra spglutrpar gserthrHis GlualatyrV althrValle uGluGlyPhe SerGlyAsnT hrThrLeuPh eSerCysSer HisAsnPheTrp
- eAspMetSer PheGluProP roGluPheGl uIleValGly PheThrAsnH isIleAsnVa lMetValLys PheProSerI leValGluGlu 401 GGCTGGCCAT AGACATGTCT TITGAACCAC CAGAGTTTGA GATTGTTGGT TTTACCAACC ACATTAATGT GATGGTGAAA TTTCCATCTA TTGTTGAGGA CTAACAACCA AAATGGTTGG TGTAATTACA CTACCACTTT AAAGGTAGAT AACAACTCCT CCGACCGGTA TCTGTACAGA AAACTTGGTG GTCTCAAACT LeuAlail 102
- 501 AGAATTACAG TITGATTTAT CTCTCGTCAT TGAAGAACAG TCAGAGGGAA TTGTTAAGAA GCATAAACCC GAAATAAAAG GAAACATGAG TGGAAATTTC CTTTGTACTC ACCTTTAAAG GluLeuGln PheAspLeuS erLeuValIl eGluGluGln SerGluGlyI leValLysLy sHisLysPro GluIleLysG lyAsnMetSe rGlyAsnPhe TCTTAATGIC AAACTAAATA GAGAGCAGTA ACTICTIGIC AGICTCCCTT AACAATICTT CGTATTIGGG CTTTAITITC 135
- ThrTyrilei leAspLysLe uileProAsn ThrAsnTyrC ysValSerVa lTyrLeuGlu HisSerAspG luGlnAlaVa lileLysSer ProLeuLysCys 601 ACCTATATCA TTGACAAGTT AATTCCAAAC ACGAACTACT GTGTATCTGT TTATTTAGAG CACAGTGATG AGCAAGCAGT AATAAAGTCT CCCTTAAAAT GGGAATTTTA AACTGITCAA TIAAGGITIG IGCITGAIGA CACAIAGACA AAIAAAICIC GIGICACIAC ICGITCGICA ITAITITCAGA TGGATATAGT
- ThrLeuLe uProProGly GingluSerG luSerAlaGl uSerAlaAsp LysThrHisT hrCysProPr oCysProAla ProGluLeuL euGlyGlyPro GCACCCTCCT TCCACCTGGC CAGGAATCAG AATCAGCAGA ATCTGCCGAC AAAACTCACA CATGCCCACC GTGCCCAGCA CCTGAACTCC TGGGGGGACC TAGACGGCTG TITTGAGTGT GTACGGGTGG CACGGGTCGT GGACTTGAGG ACCCCCTGG AGGIGGACCG GICCITAGIC ITAGICGICI CGTGGGAGGA 701
- 801 GICAGICITC CICITCCCCC CAAAACCCAA GGACACCCIC AIGAICICCC GGACCCCIGA GGICACAIGC GIGGIGGIGG ACGIGAGCCA CGAAGACCCI LeuPheprop roLysProLy sAspThrLeu MetileSerA rgThrProGl uValThrCys ValValValA spValSerHi GAGAAGGGGG GITTIGGGIT CCIGIGGGAG IACIAGAGGG CCIGGGGACT CCAGIGIACG CACCACCACC IGCACICGGI CAGTCAGAAG SerValPhe 235

5A Figure

268 GluvalLysP heAsnTrpTy rValAspGly valGluvalH isAsnAlaLy sThrLysPro ArgGluGluG lnTyrAsnSe rThrTyrArg valvalSerVal GAGGTCAAGT TCAACTGGTA CGTGGACGGC GTGGAGGTGC ATAATGCCAA GACAAAGCCG CGGGAGGAGC AGTACAACAG CACGTACCGA GTGGTCAGCG CTCCAGTTCA AGTTGACCAT GCACCTGCCG CACCTCCACG TATTACGGTT CTGTTTCGGC GCCCTCCTCG TCATGTTGTC GTGCATGGCT CACCAGTCGC 901 GAGGTCAAGT

LeuThrVa lLeuHisGln AspTrpLeuA anGlyLysGl uTyrLysCys LysValSerA snLysAlaLe uProAlaPro IleGluLysT hrIleSerLys CCATCTCCAA AGGAGTGGCA GGACGTGGTC CTGACCGACT TACCGTTCCT CATGTTCACG TTCCAGAGGT TGTTTCGGGA GGGTCGGGGG TAGCTCTTTT 1001 TECTCACCGT CCTGCACCAG GACTGGCTGA ATGGCAAGGA GTACAAGTGC AAGGTCTCCA ACAAAGCCCT CCCAGCCCC ATCGAGAAAA

305

CCAGTTTCCG 1101 AGCCAAAGGG CAGCCCCGAG AACCACAGGT GTACACCCTG CCCCCATCCC GGGAAGAGAT GACCAAGAAC CAGGTCAGCC TGACCTGCCT GGTCAAAGGC GICGGGGGTC TIGGIGICA CAIGIGGGAC GGGGTAGGG CCCTICICIA CIGGITCIIG GICCAGICGG ACTGGACGGA TCGGTTTCCC

AlaLysGly GlnProArgG luProGlnVa 1TyrThrLeu ProProSerA rgGluGluMe tThrLysAsn GlnValSerL euThrCysLe uValLysGly 335

PheTyrpros eraspileal avalglutrp gluserasng lyglnProgl uasnasnTyr LysThrThrP roProvalLe uaspserasp glyserPhePhe CCGAGGAAGA GGACTCCGAC GGCTCCTTCT COCTOTAGGO GCACCTCACC CTCTCGTTAC CCGTCGGCCT CTTGTTGATG TTCTGGTGCG GAGGGCACGA CCTGAGGCTG GCGACATCGC CGTGGAGTGG GAGAGCAATG GGCAGCCGGA GAACAACTAC AAGACCACGC CTCCCGTGCT TTCTATCCCA 368 1201

CTGCACAACC ACTACACGCA TGATGTGCGT GACGTGTTGG TCCTCTACAG CAAGCTCACC GTGGACAAGA GCAGGTGGCA GCAGGGGAAC GTCTTCTCAT GCTCCGTGAT GCATGAGGCT CGTCCCCTTG CAGAGGGTA CGAGGCACTA CGTACTCCGA GTTCGAGTGG CACCTGTTCT CGTCCACCGT AGGAGATGTC 1301

LeuTyrSe rLysLeuThr ValAspLysS erArgTrpGl nGlnGlyAsn ValPheSerC ysSerValMe tHisGluAla LeuHisAsnH isTyrThrGln 402

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(SEQ ID NO.26) LysserLeu SerLeuSerP rodlyLysOP * 435

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TGCAGCTTAT AATGGTTACA AATAAAGCAA TAGCATCACA AATTTCACAA ATAAAGCATT TTTTCACTG CATTCTAGTT GTGGTTTGTC CAAACTCATC acgicgaata ttaccaaigi ttatticgit atcgiagigi ttaaagigit tatticgiaa aaaaagigac giaagatcaa caccaaacag gittigagiag 1501

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1701 GGCGGAAAGA ACCAGCTGTG GAATGTGTGT CAGTTAGGGT GTGGAAAGTC CCCAGGCTCC CCAGCAGGCA GAAGTATGCA AAGCATGCAT CTCAATTAGT CCGCCTITCT TGGTCGACAC CTTACACACA GTCAATCCCA CACCTTTCAG GGGTCCGAGG GGTCGTCCGT CTTCATACGT TTCGTACGTA GAGTTAATCA

GICGITGGIC CACACCITIC AGGGGICCGA GGGGICGICC GICTICATAC GITICGIACG TAGAGITAAI CAGICGITGG TAICAGGGCG GGGAITGAGG CAGCAACCAG GIGIGGAAAG ICCCCAGGCI CCCCAGCAGG CAGAAGIAIG CAAAGCAIGC AICICAAITA GICAGCAACC AIAGICCCGC 1801

5B

- GAGCTAITICC AGAAGTAGTG AGGAGGCTIT TITGGAGGCC TAGGCTTTTG CAAAAAGCTG TTAACAGCTT GGCACTGGCC GTCGTTTTAC AACGTCGTGA CTCGATAAGG TCTTCATCAC TCCTCCGAAA AAACCTCCGG ATCCGAAAAC GTTTTTCGAC AATTGTCGAA CCGTGACCGG CAGCAAATG start pucile 2001
- gaccetting ggaccgcaat gggttgaatt agcggaacgt cgtgtagggg ggaagcggtc gaccgcatta tcgcttctcc gggcgtggct agcgggaagg TCGCCCTTCC 2101 CTGGGAAAAC CCTGGCGTTA CCCAACTTAA TCGCCTTGCA GCACATCCCC CCTTCGCCAG CTGGCGTAAT AGCGAAGAGG CCCGCACCGA
- CATACGICAA AGCAACCAIA gitgicaacg caicggactt accgcttacc gcggactacg ccataaaaga ggaatgcgta gacacgccat aaagtgtggc gtatgcagtt tcgttggtat CCTTACGCAT CTGTGCGGTA TTTCACACCG GGTATTTTCT CGCCTGATGC TGGCGAATGG GTAGCCTGAA CAACAGTTGC 2201

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- CATGCGCGGG ACATCGCCGC GTAATTCGCG CCGCCCACAC CACCAATGCG CGTCGCACTG GCGATGTGAA CGGTCGCGGG ATCGCGGGCG AGGAAAGCGA TCCTTTCGCT TAGCGCCCGC GCCAGCGCCC TOTAGCGGCG CATTAAGCGC GGCGGGTGTG GTGGTTACGC GCAGCGTGAC CGCTACACTT GTACGCGCCC 2301
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- TICCAAACIG GAACAACACI CAACCCIAIC ICGGGCIAII CITITGAIII AIAAGGGAII IIGCCGAIII CGGCCIAIIG GIIAAAAAI CAATTTTTA ACCIGAGAAC AAGGIIIGAC CIIGIIGIGA GIIGGGAIAG AGCCCGAIAA GAAAACIAAA IAIICCCIAA AACGGCIAAA GCCGGAIAAC TGGACTCTTG 2601
- GAGCTGATTT AACAAAATT TAACGCGAAT TTTAACAAA TATTAACGTT TACAATTTTA TGGTGCACTC TCAGTACAAT CTGCTCTGAT GCCGCATAGT ctcgactaaa ttgittttaa aitgcgctta aaaitgitit ataaitgcaa atgitaaaat accacgtgag agicatgita gacgagacta cggcgtaica 2701
- TAAGCCAACT CCGCTATCGC TACGTGACTG GGTCATGGCT GCGCCCCGAC ACCCGCCAAC ACCCGCTGAC GCGCCCTGAC GGGCTTGTCT GCTCCCGGCA ATTCGGTTGA GGCGATAGCG ATGCACTGAC CCAGTACCGA CGCGGGGCTG TGGGCGGTTG TGGGCGACTG CGCGGGACTG CCCGAACAGA CGAGGGCCGT 2801
- 2901 TCCGCTTACA GACAAGCTGT GACCGTCTCC GGGAGCTGCA TGTGTCAGAG GTTTTCACCG TCATCACCGA AACGCGGAG GCAGTATTCT TGAAGACGAA CTGTTCGACA CTGGCAGAGG CCCTCGACGT ACACAGTCTC CAAAAGTGGC AGTAGTGGCT TTGCGCGCTC CGTCATAAGA ACTTCTGCTT AGGCGAATGT
- TCCCGGAGCA CTATGCGGAT AAAATATCC AATTACAGTA CTATTATTAC CAAAGAATCT GCAGTCCACC GTGAAAAGCC CCTTTACACG CGCCTTGGGG GATACGCCTA TITITATAGG TIAATGTCAT GATAATAG GITTCTTAGA CGTCAGGTGG CACTITTCGG GGAAATGTGC GCGGAACCCC AGGGCCTCGT 3001

101	TATTTGTTTA ATAAACAAAT	TTTTTCTAAA AAAAAGATTT		TATGTATCG CTCATGAGAC AATAACCCTG ATACATAGGC GAGTACTCTG TTATTGGGAC	createagac gagtacrete	AATAACCCTG TTATTGGGAC	ATAAATGCTT TATTTACGAA	CAATAATATT GTTATTATAA	GAAAAGGAA CTTTTTCCTT	CTCATACTC
201		ATTCAACATT TCCGTGTCGC TAAGTTGTAA AGGCACAGCG	CCTTATTCCC	TTTTTTGCGG	CATTTTGCCT GTAAAACGGA	TCCTGTTTTT	GCTCACCCAG CGAGTGGGTC	AAACGCTGGT TTTGCGACCA	gaaagtaaaa Ctttcatttt	gatgetgaa(Ctaegaett(
301		ATCAGITGGG IGCACGAGIG IAGICAACCC ACGIGCICAC	GGTTACATCG CCAATGTAGC	AACTGGATCT TTGACCTAGA	CAACAGCGGT GTTGTCGCCA	AAGATCCTTG	agagititicg Tctcaaaagc	CCCCGAAGAA GGGGCTTCTT	CGTTTTCCAA GCAAAAGGTT	Tgatgagca(Actactcgt
401		TTTTAAAGTT CTGCTATGTG AAAATTTCAA GACGATACAC	GCGCGGTATT	ATCCCGTGAT TAGGGCACTA	GACGCCGGGC	AAGAGCAACT	cearceccec	ATACACTATT TATGTGATAA	CTCAGAATGA GAGTCTTACT	CTTGGTTGA(GAACCAACT(
501		TACTCACCAG TCACAGAAAA ATGAGTGGTC AGTGTCTTTT	GCATCTTACG CGTAGAATGC	GATGGCATGA CTACCGTACT	CAGTAAGAGA GTCATTCTCT	ATTATGCAGT TAATACGTCA	GCTGCCATAA CGACGGTATT	CCATGAGTGA GGTACTCACT	TAACACTGCG ATTGTGACGC	gccaactta(cggttgaat
109	TTCTGACAAC AAGACTGTTG	GATCGGAGGA CTAGCCTCCT	CCGAAGGAGC GGCTTCCTCG	TAACCGCTTT ATTGGCGAAA	TTTGCACAAC AAACGTGTTG	ATGGGGGATC TACCCCCTAG	ATGTAACTCG TACATTGAGC	CCTTGATCGT GGAACTAGCA	TGGGAACCGG ACCCTTGGCC	agctgaatgi Tcgacttac
701		AGCCATACCA AACGACGAGC TCGGTATGGT TTGCTGCTCG	GTGACACCAC	GATGCCAGCA CTACGGTCGT	GCAATGGCAA CGTTACCGTT	CAACGTTGCG GTTGCAACGC	CAAACTATTA GTTTGATAAT	ACTGGCGAAC TGACCGCTTG	TACTTACTCT ATGAATGAGA	AGCTTCCCG(TCGAAGGGC
801	CAACAATTAA GTTGTTAATT	TAGACTGGAT ATCTGACCTA	GGAGGCGGAT	AAAGTTGCAG TTTCAACGTC	GACCACTTCT CTGGTGAAGA	GCGCTCGGCC	CTTCCGGCTG	GCTGGTTTAT CGACCAAATA	TGCTGATAAA ACGACTATTT	TCTGGAGCC(AGACCTCGG
901	GTGAGCGTGG	GTCTCGCGGT	ATCATTGCAG TAGTAACGTC	CACTGGGGCC GTGACCCCGG	agatggtaag Tctaccattc	CCCTCCCGTA	TCGTAGTTAT AGCATCAATA	CTACACGACG	GGGAGTCAGG CCCTCAGTCC	CAACTATGG
100		TGAACGAAAT AGACAGATCG ACTTGCTTTA TCTGTCTAGC	CTGAGATAGG	TGCCTCACTG ACGGAGTGAC	ATTAAGCATT TAATTCGTAA	GGTAACTGTC CCATTGACAG	AGACCAAGTT TCTGGTTCAA	TACTCATATA ATGAGTATAT	TACTTTAGAT ATGAAATCTA	TGATTTAAA ACTAAATTT
101		CTTCATTTTT AATTTAAAAG GAAGTAAAAA TTAAATTTTC	GATCTAGGTG	AAGATCCTTT TTCTAGGAAA	TTGATAATCT AACTATTAGA	CATGACCAAA GTACTGGTTT	ATCCCTTAAC TAGGGAATTG	GTGAGTTTTC CACTCAAAAG	GTTCCACTGA	GCGTCAGAC
201		GATCAAAGGA	CCGTAGAAAA GATCAAAGGA TCTTCTTGAG GGCATCTTTT CTAGTTTCCT AGAAGAACTC	ATCCTTTTTT TAGGAAAAA	TCTGCGCGTA AGACGCGCAT	ATCTGCTGCT TAGACGACGA	TGCAAACAAA ACGTTTGTTT	AAAACCACCG TTTTGGTGGC	CTACCAGCGG	TGGTTTGTT
301	GCCGGATCAA	GAGCTACCAA CTCGATGGTT	CTCTTTTTCC GAGAAAAAGG	GAAGGTAACT CTTCCATTGA	GGCTTCAGCA CCGAAGTCGT	GAGCGCAGAT CTCGCGTCTA	ACCAAATACT TGGTTTATGA	GTCCTTCTAG	TGTAGCCGTA	GTTAGGCCA

Figure 5D

- 4401 CACTTCAAGA ACTCTGTAGC ACCGCCTACA TACCTGGCTC TGCTAATGCT GTTACCAGTG GCTGCTGCCA GTGGCGATAA GTCGTGTCTT ACCGGGTTGG GTGAAGTTCT TGAGACATCG TGGCGGATGT ATGGAGCGAG ACGATTAGGA CAATGGTCAC CGACGACGGT CACCGCTATT CAGCACAGAA TGGCCCAACC
- TGAGTICTGC TATCAATGGC CTATICCGCG TCGCCAGCCC GACTIGCCCC CCAAGCACGT GTGTCGGGTC GAACCTCGCT TGCTGGATGT GGCTTGACTC CCGAACTGAG CTTGGAGCGA ACGACCTACA CACAGCCCAG GGTTCGTGCA AGCGGTCGGG CTGAACGGGG GATAAGGCGC ATAGTTACCG ACTCAAGACG 4501
- AGAGCGCACG TCTCGCGTGC TAINGDAIGIC GCACTCGIAA CICTITCGCG GIGCGAAGGG CTICCCICIT ICCGCCIGIC CAIAGGCCAI ICGCCGICCC AGCCTIGICC GAGAAAGCGC CACGCTTCCC GAAGGGAGAA AGGCGGACAG GTATCCGGTA AGCGGCAGGG TCGGAACAGG CGTGAGCATT ATACCTACAG 4601
- TCGCCACCTC TGACTTGAGC GTCGATTTTT GTGATGCTCG TCAGGGGGGC ICCCICGAAG GICCCCCIII GCGGACCAIA GAAAIAICAG GACAGCCCAA AGCGGIGGAG ACIGAACTCG CAGCIAAAAA CACIACGAGC AGICCCCCCG CTGTCGGGTT AGGGAGCTTC CAGGGGGAAA CGCCTGGTAT CTTTATAGTC 4701
- CCCCTGATTC cctcggatac ctttttgcgg tcgttgcgcc ggaaaatgc caaggaccgg aaaacgaccg gaaaacgagt gtacaagaaa ggacgcaata ggggactaag CCTGCGTTAT GGAGCCIATG GAAAACGCC AGCAACGCGG CCTTTTTACG GTTCCTGGCC TTTTGCTGGC CTTTTGCTCA CATGTTCTTT 4801

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- GGAAGAGCGC acacctattg gcataatggc ggaaactcac tcgactatgg cgagcggcgt cggcttgctg gctcgcgtcg ctcagtcact cgctccttcg ccttctcgcg TGTGGATAAC CGTATTACCG CCTTTGAGTG AGCTGATACC GCTCGCCGCA GCCGAACGAC CGAGCGCAGC GAGTCAGTGA GCGAGGAAGC 4901
 - CGCAACGCAA GGGCAGTGAG CCCCGCGCGCT TGGCCGATTC ATTAATCCAG CTGGCACGAC AGGTTTCCCG ACTGGAAAGC CCAATACGCA AACCGCCTCT 5001
- CATTAGGCAC CCCAGGCTTT ACACTTTATG CTTCCGGCTC GTATGTTGTG TGGAATTGTG AGCGGATAAC AATTTCACAC TTAAAGTGTG TCGCCTATTG AATTACACTC AATGGAGTGA GTAATCCGTG GGGTCCGAAA TGTGAAATAC GAAGGCCGAG CATACAACAC ACCTTAACAC TTACCTCACT TTAATGTGAG 5101
- CATTAGTTCA tccitigicg ataciggtac taatgcttaa ttaagctcga gcgggctgta actaataact gatcaataat tatcattagt taatgcccca gtaatcaagt AGGAAACAGC TATGACCATG ATTACGAATT AATTCGAGCT CGCCCGACAT TGATTATTGA CTAGTTATTA ATAGTAATCA ATTACGGGGT from pPMLCMV beginning to HindIII, enhancers and promoter 5201
- 5301 TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA AATGGCCCGC CTGGCTGACC GCCCAACGAC CCCCGCCCAT TGACGTCAAT AATGACGTAT atcgggtata taccicaagg cgcaatgtat tgaatgccat ttaccgggcg gaccgactgg cgggttgctg ggggcgggta actgcagtta ttactgcata
- CAAGGGTATC ATTGCGGTTA TCCCTGAAAG GTAACTGCAG TTACCCACCT CATAAATGCC ATTTGACGGG TGAACCGTCA TGTAGTTCAC ATAGTATACG ACATCAAGTG GITCCCAIAG TAACGCCAAT AGGGACITIC CATIGACGIC AAIGGGIGGA GIAITIACGG IAAACIGCCC ACTIGGCAGI 5401
- CAAGTACGCC CCCTATTGAC GTCAATGACG GTAAATGGCC CGCCTGGCAT TATGCCCAGT ACATGACCTT ATGGGACTTT CCTACTTGGC AGTACATCTA GITICATGCGG GGGATAACTG CAGTTACTGC CATTTACCGG GCGGACCGTA ATACGGGTCA TGTACTGGAA TACCCTGAAA GGATGAACCG TCATGTAGAT 5501

Figure 5E

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agtitigg cagtacatca atgggcgtgg atagcggttt gactcacggg gattrccaag tctccaccc	CGCCAAAACC GTCATGTAGT TACCCGCACC TATCGCCAAA CTGAGTGCCC CTAAAGGTTC AGAGGTGGGG
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CAAG	GTTC
TITC	FARAG
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CADADICADE GGGACTITICE ADADIGICGI ADCADCICCG CCCATIGAC GCADATIGGE GGIAGGES	TAACTGCAGT TACCCTCAAA CAAAACCGTG GITTTAGTTG CCCTGAAAGG TTTTACAGCA TTGTTGAGGC GGGGTAACTG CGTTTACCCG CCATCCGCAC
CCCCATTGAC	GGGGTAACTG
AACAACTCCG	TTGTTGAGGC
AAAATGTCGT	TTTTACAGCA
GGGACTTTCC	CCCTGAAAGG
CAMANTCANC	GTTTTAGTTG
GTTTTGGCAC	CAAAACCGTG
ATGGGAGTTT	TACCCTCAAA
5701 ATTGACGTCA ATGGGAGTTT GTTTTGGCAC CAAAATG	TAACTGCAGT
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GTTTAGTGAA CCGTCAGATC GCCTGGAGAC GCCATCCACG CTGTTTTGAC CTCCATAGAA GACACCGGGA	CAAATCACTT GGCAGTCTAG CGGACCTCTG CGGTAGGTGC GACAAACTG GAGGTATCTT CTGTGGCCCT
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ATAG	TATC
CLC	GAGG
TGAC	AACTG
TCLL	BACAN
Ace	TGC
CATCO	GTAGG
gg gg	is cs
rggag	ACCTC
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AGATO	TCTAG
CCGTC	GGCAG
TGAA	ACTT
ITTAG	AAATC
TC G	SAG C
AGAGC	TCTCC
A AGO	T TCG
TATAT	ATATA
GGTC	CCAG
5801 TACGGTGGGA GGTCTATATA AGCAGAGCTC GTTTAGT(ATGCCACCCT CCAGATATAT TCGTCTCGAG CAAATC
'ACGG1	TGCC
801 T	. «
L)	٠.

5901 CCGATCCAGC CTCCGCGGCC GGGAACGGTG CATTGGAACG CGGATTCCCC GTGCCAAGAG TGACGTAAGT ACCGCCTATA GAGTCTATAG GCCCACCCCC GGGTAGGTCT ACGCGGATAT CTCAGATATC CGGGTGGGGG CACGGTTCTC ACTGCATACA TGGCGGATAT CTCAGATATC CGGGTGGGGG	6001 TIGGCICGIT AGAACGCGGC TACAATTAAT ACATAACCIT AIGTAICATA CACATACGAT TIAGGIGACA CTATAGAATA ACAICCACIT IGCCITITCIC AACCGAGCAA ICITGCGCCG AIGITAAITA IGTAITGGAA TACATAGIAI GIGTAIGCIA AAICCACIGI GATAICITAI IGTAGGIGAA ACGGAAAGAG
ACCGCCTATA TGGCGGATAT	CTATAGAATA GATATCTTAT
TGACGTAAGT ACTGCATTCA	TTAGGTGACA AATCCACTGT
GTGCCAAGAG CACGGTTCTC	CACATACGAT GTGTATGCTA
CGGATTCCCC	ATGTATCATA TACATAGTAT
CATTGGAACG GTAACCTTGC	ACATAACCTT TGTATTGGAA
GGGAACGGTG CCCTTGCCAC	TACAATTAAT ATGTTAATTA
CTCCGCGGCC	agaacgcggc Tcttgcgccg
CCGATCCAGC	TTGGCTCGTT
5901	1009

sp6 RNA start

(SEQ ID NO.25) 6101 TCCACAGGGG TCCACTCCCA GGTCCAACTG CAGGCCATGG CGGCCATCGA TT AGGTGTCCAC AGGTGAGGGT CCAGGTTGAC GTCCGGTACC GCCGGTAGCT AA cloning linker

sp6 promoter

Figure 5F